

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
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Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
								Lead hand / Supervisor Approval Verification																	
								QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			OTHER : ☐																	

Work Order ID 158341

Monday, March 20, 2017 1:30:42 PM

158341

Page 2

Item ID: 646.3310 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: LH Half - Upper Cutter Assembly
Start Date: 3/22/2017 Start Qty: 4.00 ***4*** Cust Item ID:
Required Date: 3/30/2017 Req'd Qty: 4.00 ***4*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130* QC Quality Control	QC8- Inspect parts - second check Memo	0.00 0.08				<u>4</u>	<u>0</u>		DAS 14 9-89 17/03/24
140 *140* Outsource4 Outsource process - Anodize	Outsource process-Anodize per OSI017 4.1.10.1 Memo Issue P/O to ATG : <u>35865</u> 1- Black Anodize as per Dwg 646.3300 2- PRIME AS PER DWG, SEE NOTE #2 Certification of Conformity is required	0.00 720.00				<u>4</u>	<u>APR 06 2017</u>		DAS 13 9-89
150 *150* Packaging Packaging	Receive & Inspect for Damage & Mat'l Certs Memo	0.00 0.08				<u>4</u>	<u>X</u>	<u>SP17-4-25</u>	

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
2AO AT 98-2									
Root Cause		FAULT CATEGORY							
Environment ☐	☐ No Re-verification	Pressure/Forced ☐	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong				
Design ☐	☐ Operator	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	☐ Offset/Setup	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	☐ Supplier	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	☐ Training	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	☐ Use for Testing	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	☐ Poor Information	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	☐ Rushing	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	☐ Product Improvement	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	☐ Process Improvement	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	☐ Manufacturing Process								
Misidentified ☐	☐ Past Due	OTHER :							

Work Order ID 158341***158341***

Page 3

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Item ID: 646.3310 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: LH Half - Upper Cutter Assembly
Start Date: 3/22/2017 Start Qty: 4.00 ***4*** Cust Item ID:
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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
155 *155* QC Quality Control	QC5- Inspect part completeness to step on W/O Memo 2.5mils thickness primer	0.00 0.08				4			DAS 38 APR 25 2017
180 *180* Packaging Packaging	Identify as per dwg & Stock Location: <u>ckoz</u> Memo ***IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV***	0.00 0.04				4			DAS 6 APR 25 2017
190 *190* QC Quality Control	QC21- Final Inspection - Work Order Release Memo	0.00 0.04							17/4/27 JH

DAS
21
9-89

APR 26 2017

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Monday, March 20, 2017 1:30:42 PM

Page 1

Work Order ID: 158341

158341

Parent Item: 646.3310

646.3310

Parent Item Name: LH Half - Upper Cutter Assembly

Start Date: 3/22/2017

Required Date: 3/30/2017

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP REV:A NEW ISSUE 12/11/17 JFS VERIFY BY: JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M7075T6B7.000X2.000		Purchased	No			110	f	26.7619	1.115	4.694737		DAS 33 9-89	
M7075T6B7 000X2 000									**				
7075-T6 BAR 7.000" X 2.000" (order in billets - 13.375")												17/03/23	

Location

Loc Qty

Loc Code

MAT001

26.7619

m136715

0.012

m136899

13.375

m137090

13.3749

4.5

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Date :		Step #:		QTY Effective :				MRB (QSI042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause				FAULT CATEGORY			
Environment ☐	☐ No Re-verification	Pressure/Forced ☐	☐ Temperature/Cure	Power Loss/Surge ☐	☐ Positioned Wrong		
Design ☐	☐ Operator	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐		
Doc/Data ☐	☐ Offset/Setup	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐		
Equip/Tooling ☐	☐ Supplier	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐		
Handling/Pre ☐	☐ Training	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐		
Material ☐	☐ Use for Testing	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐		
Internal Transport ☐	☐ Poor Information	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐		
Tribal Knowledge ☐	☐ Rushing	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐		
LOA ☐	☐ Product Improvement	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐		
Substation ☐	☐ Process Improvement	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐		
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : ☐					
Misidentified ☐	☐ Past Due						

APICAL

INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO.

04765

SHEET 1 OF 1

DWG NO. 646.3300

REV: NC

PREPARED BY

J. SOTO

DATE: 12/08/2014

EFFECT ON DWG

☐ INC. ☒ UNINC.

DWG TITLE: UPPER CUTTER ASSY

APPROVED BY:

ENGR.

MFG

QC

EFF.

NEXT ORDER

TRANSACTION CODES (TC):

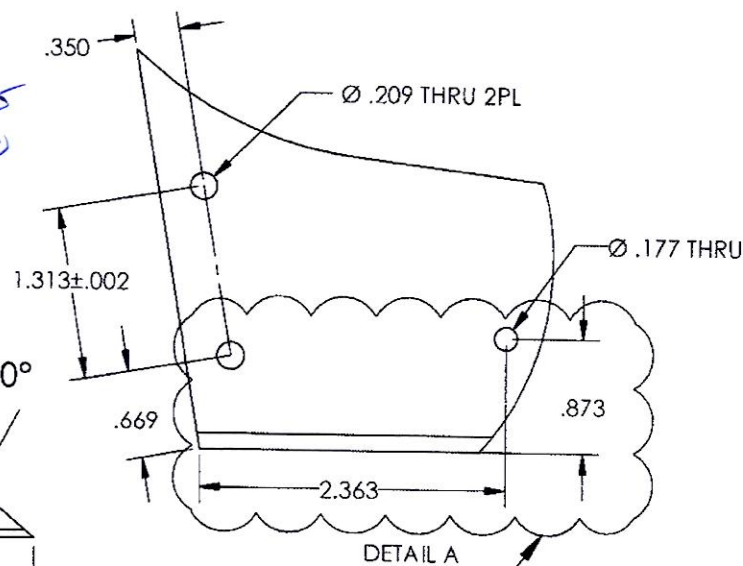
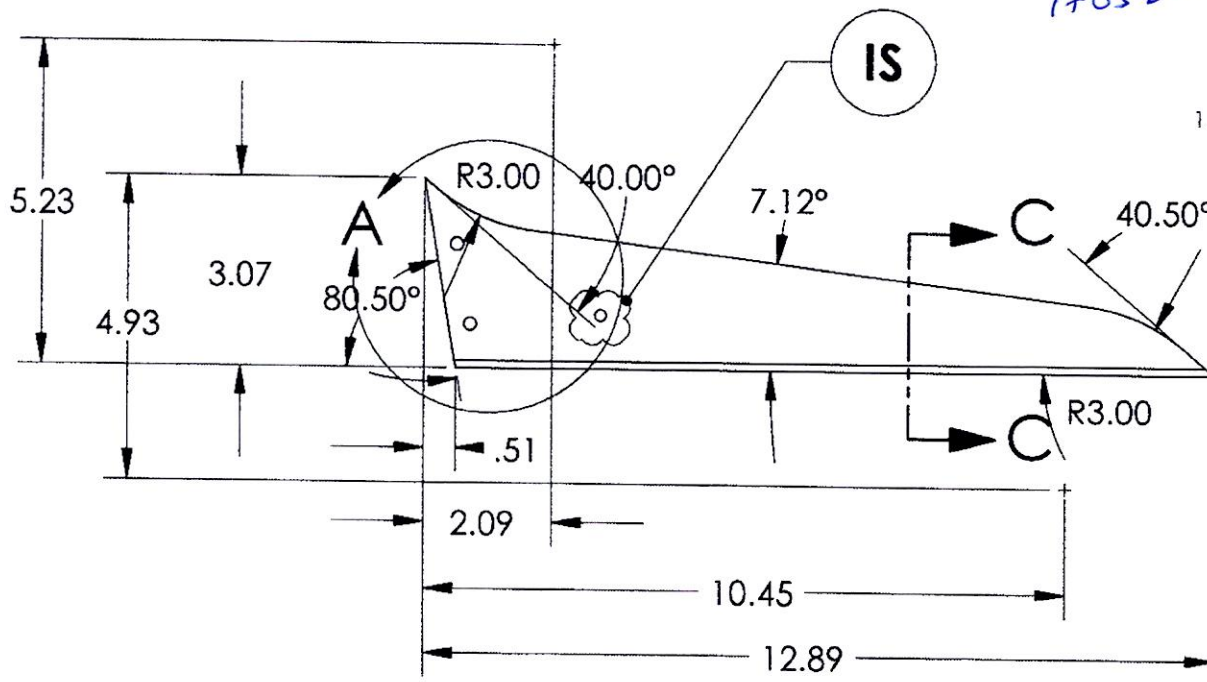
A-ADD
R-REVISE

C-CREATE
D-DELETE

REASON: ADDED HOLE DIMENSION TO 646.3313.

SHEET 5 IS:

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 158341 MJS
1703-20



DOCUMENTS EFFECTED:

☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☐ BOM

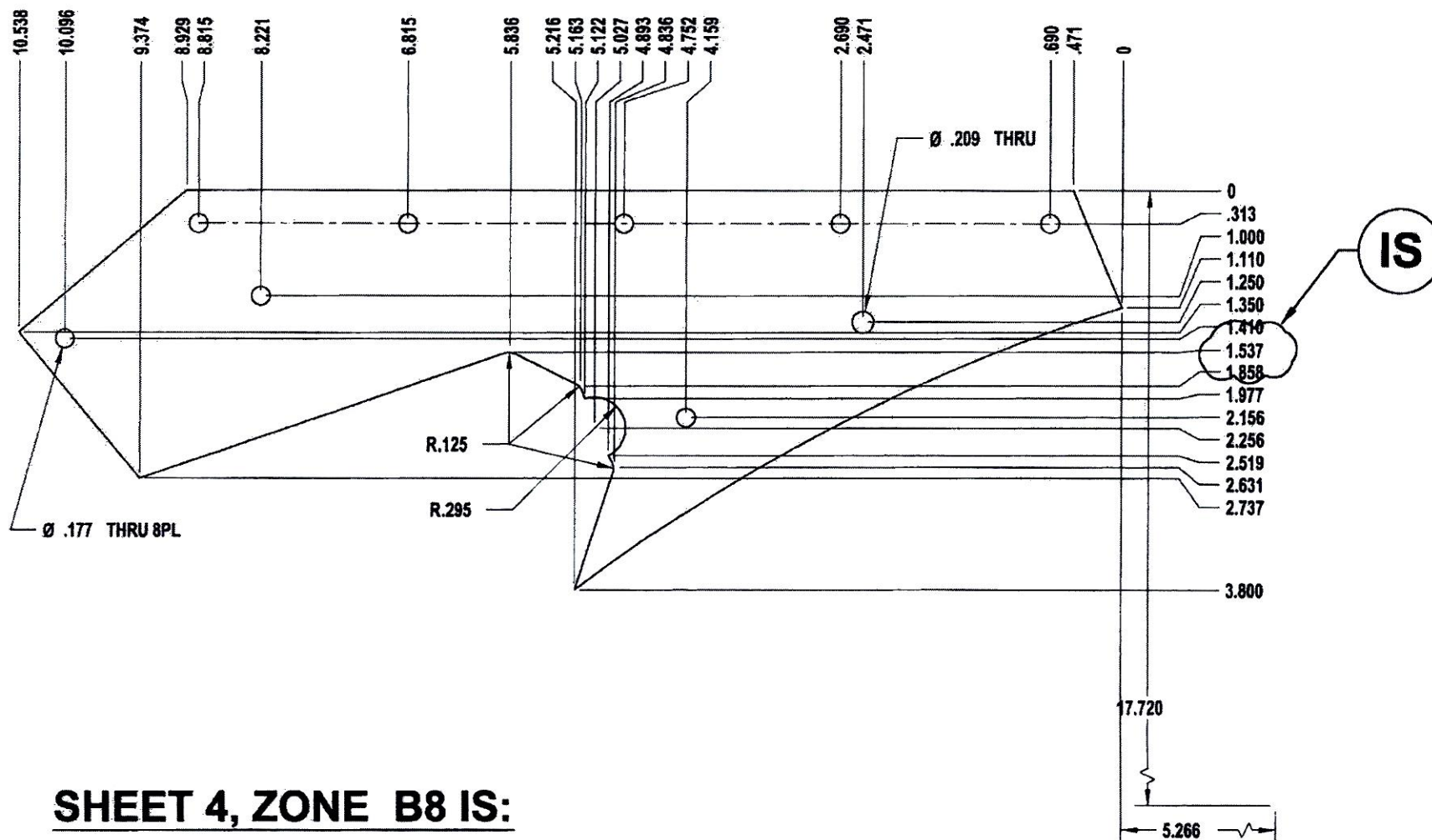
CHANGE CATEGORY

☐ MAJOR ☒ MINOR

DER REVIEW REQUIRED

☐ YES ☒ NO

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 03724				SHEET 1 OF 1	
	DWG NO. 646.3300	REV: N/C	PREPARED BY B. PETERS	DATE: 12/05/12	EFFECT ON DWG ☐ INC. ☒ UNINC.	
	DWG TITLE: UPPER CUTTER ASSY					
APPROVED BY: ENGR <i>[Signature]</i>		MFG <i>[Signature]</i>		QC <i>[Signature]</i>	EFF: NEXT ORDER	
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		REASON: REVISED ORDINATE DIMENSION.				ECR: D-12-025

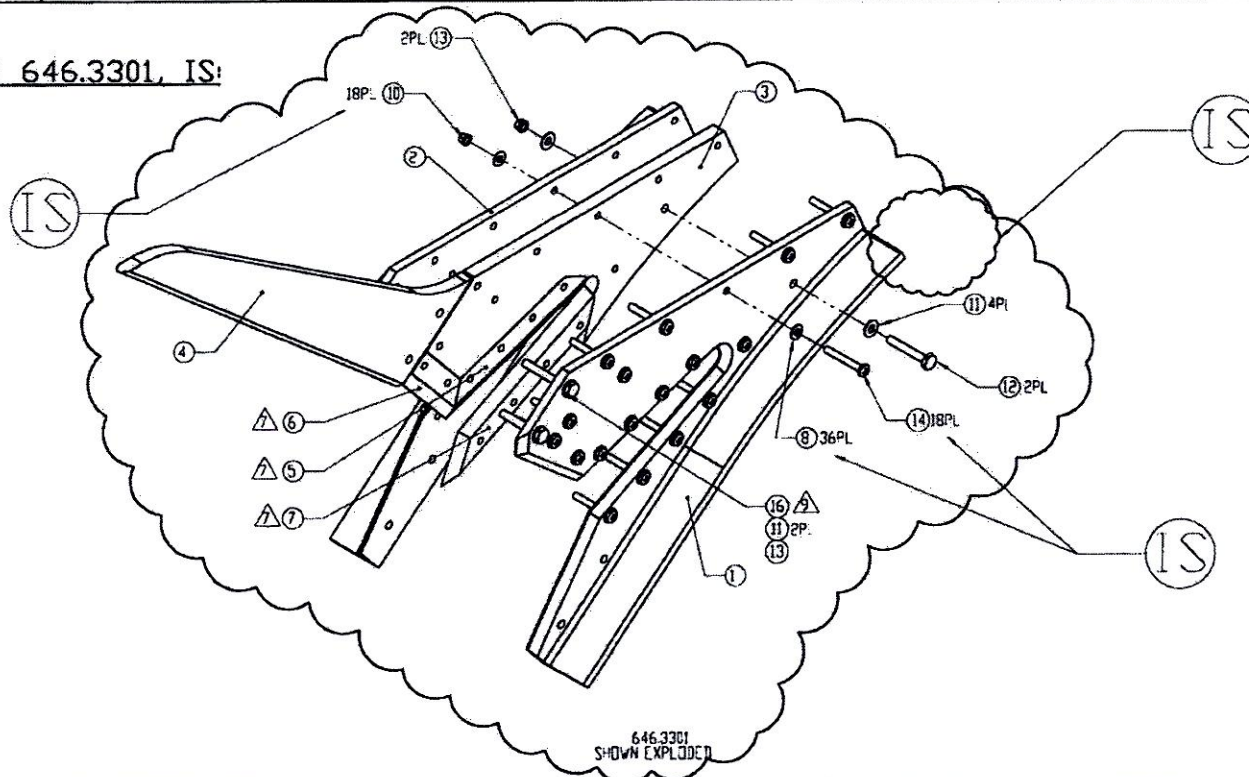


SHEET 4, ZONE B8 IS:

DOCUMENTS EFFECTED:	☐ RFMS ☐ MDL ☐ INSTALL INSTRU ☐ ICA ☐ BOM	CHANGE CATEGORY ☐ MAJOR ☒ MINOR	DER REVIEW REQUIRED ☐ YES ☒ NO
---------------------	--	---	--

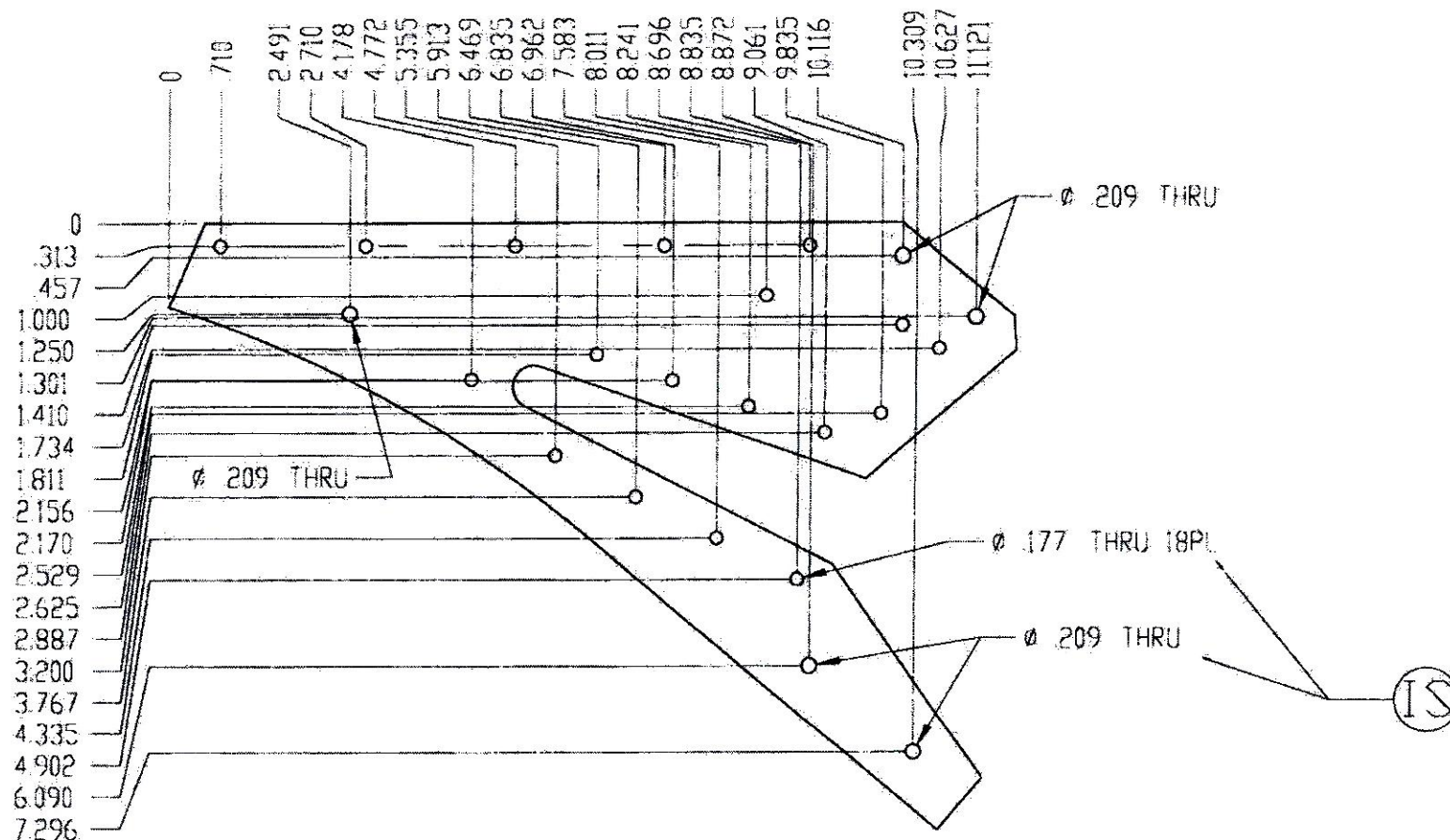
APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 02196			SHEET 1 OF 2	
	DWG NO. 646.3300	REV: N/C	PREPARED BY S. HUFF	DATE: 01/05/09	EFFECT ON DWG ☐ INC. ☒ UNINC.
	DWG TITLE: UPPER CUTTER ASSY				
	APPROVED BY: ENGR <i>[Signature]</i>	MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: NEXT ORDER	
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE	REASON: REMOVED RIVETS IN FAVOR OF ADDITIONAL SCREWS				

SHEET 1, VIEW 646.3301, IS:



14	R	601.2765		18	SCREW	MS27039-0819	
10	R	601.1541		18	LOCKNUT	MS21042L08	
9	D	601.2766		3	RIVET	MS20470AD5-18	
8	R	601.2764		36	WASHER	NAS1149FN832P	
				.3301			
F/N	TC	PART NUMBER	QTY	DESCRIPTION		MATERIAL/SPECIFICATION	
DOCUMENTS EFFECTED:						CHANGE CATEGORY	DER REVIEW REQUIRED
☐ MDL ☒ INSTALL INSTRUC ☒ ICA ☐ FMS ☒ BOM						☐ MAJOR ☒ MINOR	☐ YES ☒ NO

SHEET 3, SECTION VIEW A-A, IS:

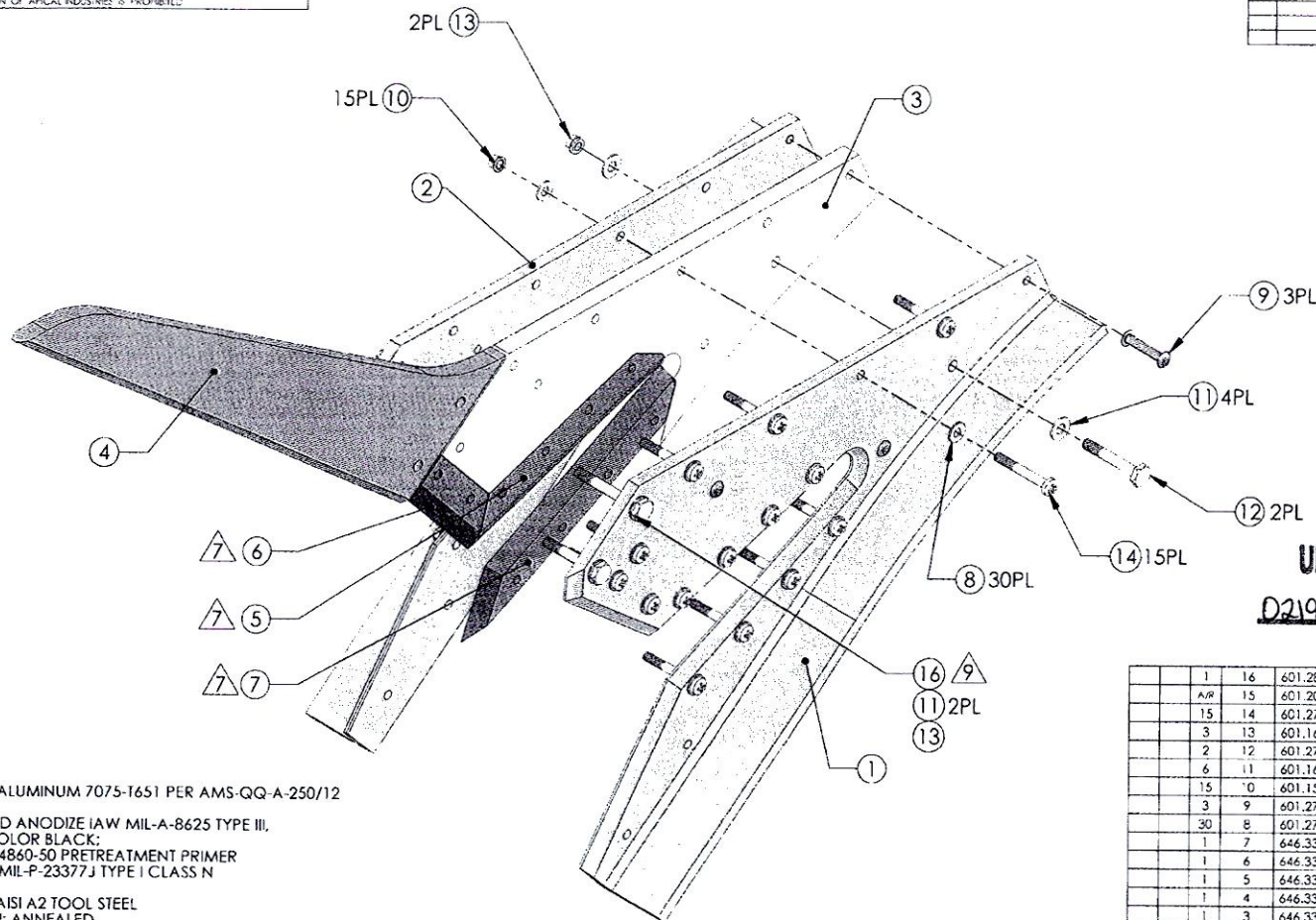


SECTION A-A

F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL/SPECIFICATION

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



UNINCORPORATED ECN(S)

02196, 03724, 04765

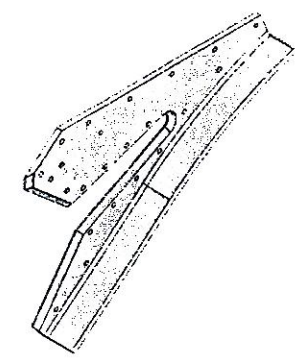
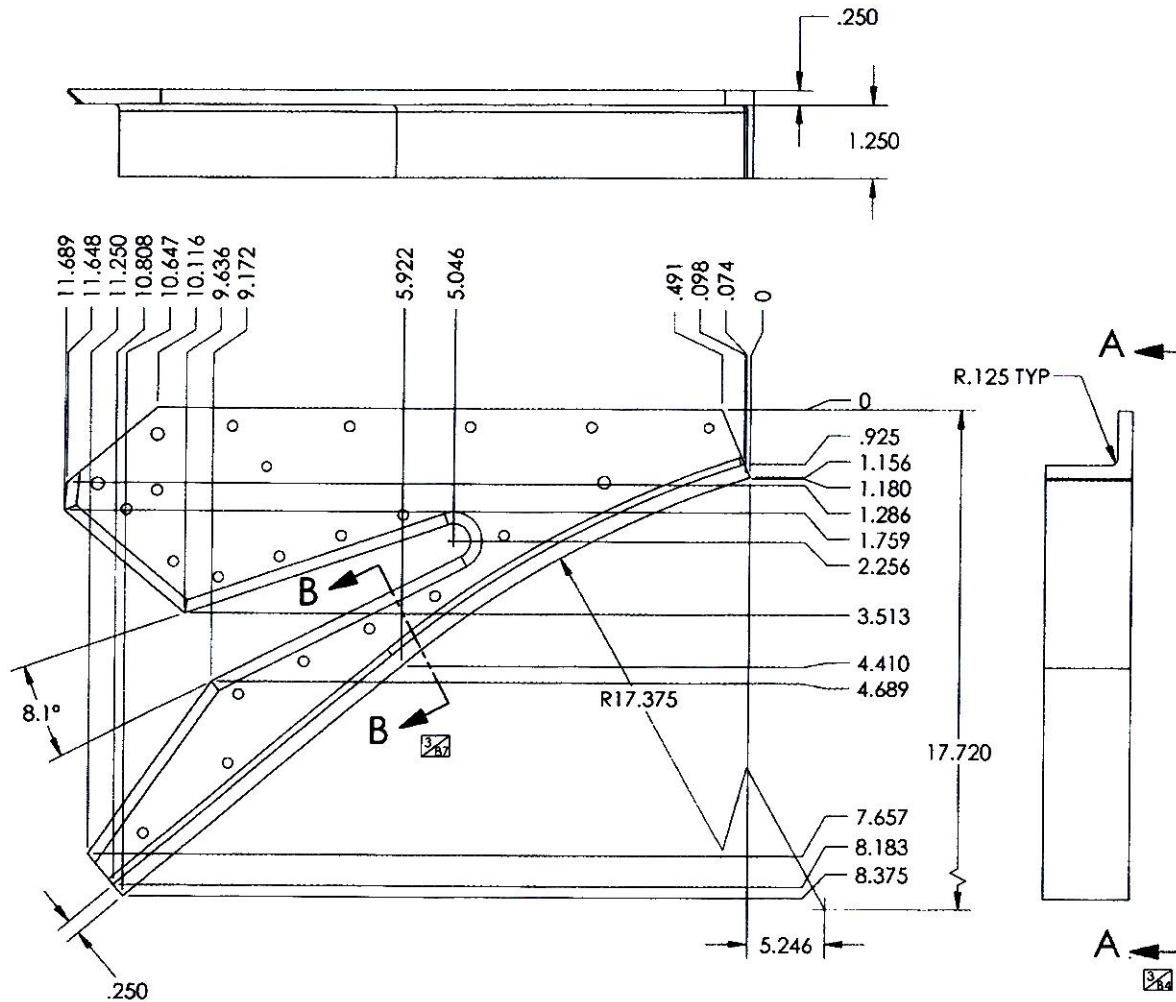
NOTES:

- 1 MATERIAL: ALUMINUM 7075-16S1 PER AMS-QQ-A-250/12
- 2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2. COLOR BLACK; CARDINAL 4860-50 PRETREATMENT PRIMER PRIME IAW MIL-P-23377J TYPE I CLASS N
- 3 MATERIAL: AISI A2 TOOL STEEL
CONDITION: ANNEALED
POST PROCESS: HEAT TREAT TO 58-62 Rc ROCKWELL HARDNESS
- 4 FINISH: PRIME IAW MIL-P-23377J TYPE I CLASS N
5. DEBURR AND BREAK ALL SHARP EDGES EXCEPT WHERE OTHERWISE NOTED
6. IDENTIFY IAW MPP-120
- 7 APPLY F/N 15 AS REQUIRED TO ALL FAYING SURFACES OF F/N 5, 6 & 7 UPON ASSEMBLY
- 8 CUTTING EDGE INTENDED TO BE SHARP. DO NOT BREAK SHARP EDGE
- 9 INSTALL FASTENER FINGER-TIGHT

646.3301
SHOWN EXPLODED

		1	16	601.2834	BOLT	AN3-14A	
		A/R	15	601.2045	RTV, LOCTITE 598		
			15	601.2765	SCREW	M527039-081X	
			3	13	601.1624	LOCKNUT	M521043L3
			2	12	601.2763	BOLT	AN3-12A
			6	11	601.1607	WASHER	M52114910332P
		15	10	601.1541	LOCKNUT	M521042L8	
			3	9	601.2766	RIVET	M52042425-18
		30	8	601.2764	WASHER	M52114910332P	
			1	7	646.3316	BLADE	△
			1	6	646.3315	BLADE	△
			1	5	646.3314	BLADE	△
			1	4	646.3313	UPPER GUIDE	△
			1	3	646.3312	CENTER PLATE	△
			1	2	646.3311	RH HALF	△
			1	1	646.3310	LH HALF	△
					646.3301	UPPER CUTTER ASSY	
		X					
		300	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.
	QTY						

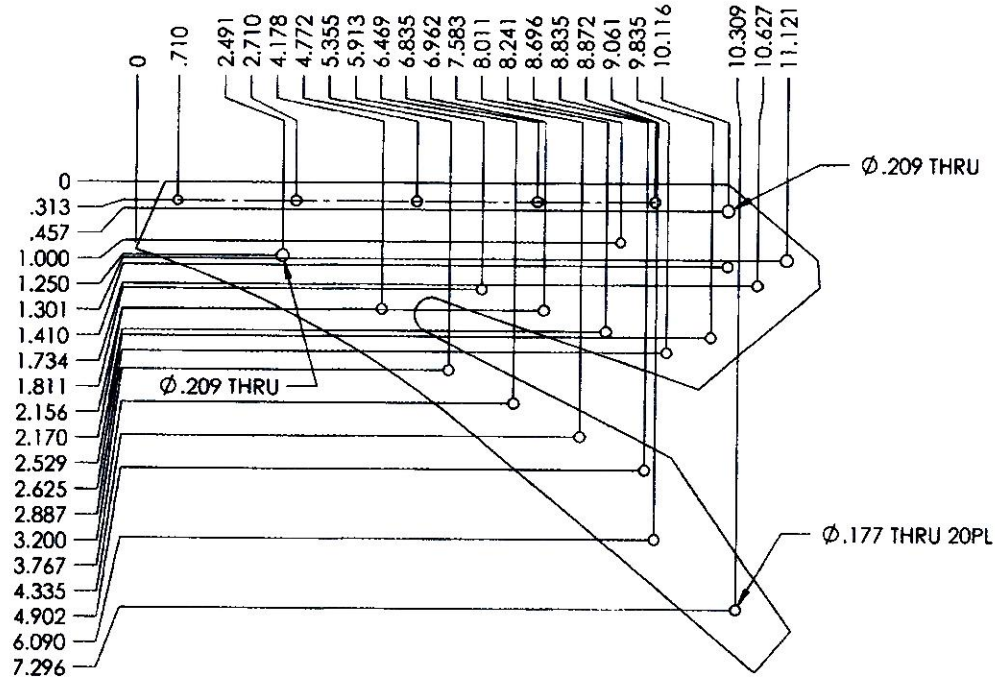
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646.3310 SHOWN
646.3311 OPPOSITE

APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
UPPER CUTTER ASSY	
ORIGINAL DATE: 08/24/88 DRAWN BY: J. HUFF CHECKED BY: P. BRAYO DRAWING APPROVAL: P. BRAYO CONTRACT NO:	SET: LARGE CLOSING DWG NO: 646.3300 REV: N/C SCALE: NONE SHEET: 2 OF 8

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SECTION A-A

SECTION B-B

ORIGINAL DATE AND CHG. NO. 08-20-00		APICAL INDUSTRIES	
DRAWN BY: J. BRAY		2600 TEMPLE HEIGHTS DR.	
CHECKED APPROVAL:		OCEANSIDE, CA. 92056-3512 (760) 724 5300	
C. CHAPALAT NO.		UPPER CUTTER ASSY	
ALL DIMENSIONS UNLESS SPECIFIED IN PARAGRAPHS ARE IN INCHES TOLERANCES ARE: 1. PLACES DECIMALS .015 2. PLACES DECIMALS .005 3. PLACES DECIMALS .001 ANGLES: ± .5°		REV. NO. 646.3300	REV. N/C
SCALE: NONE		SHEET 3 OF 8	

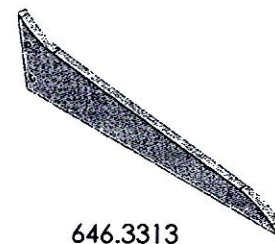
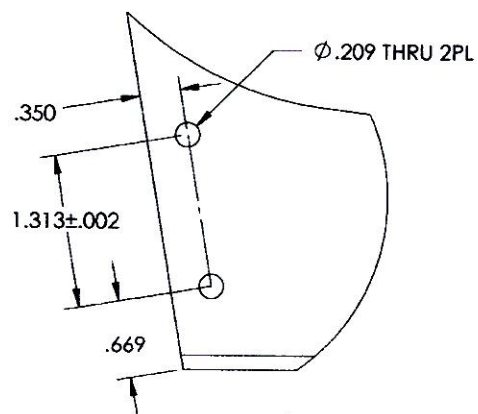
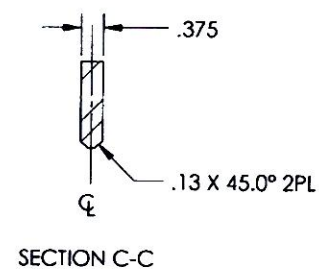
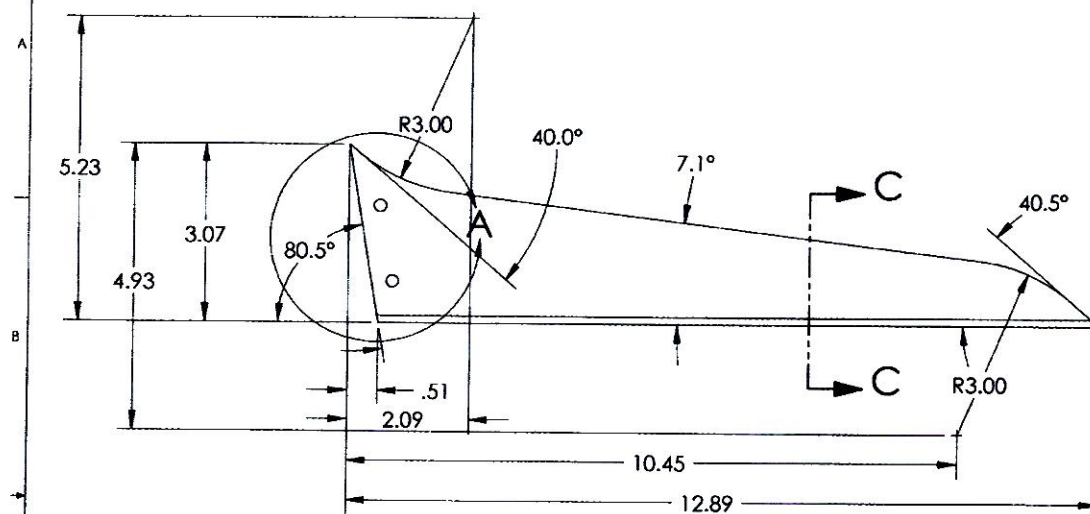
DATE	1/14/2010
TIME	
LOCATION	
BY	



ORGANIC SOLUBLE DYEING 1 HIGH 2 MILD 3 MILD 4 MILD 5 MILD 6 MILD 7 MILD 8 MILD 9 MILD 10 MILD 11 MILD 12 MILD 13 MILD 14 MILD 15 MILD 16 MILD 17 MILD 18 MILD 19 MILD 20 MILD 21 MILD 22 MILD 23 MILD 24 MILD 25 MILD 26 MILD 27 MILD 28 MILD 29 MILD 30 MILD 31 MILD 32 MILD 33 MILD 34 MILD 35 MILD 36 MILD 37 MILD 38 MILD 39 MILD 40 MILD 41 MILD 42 MILD 43 MILD 44 MILD 45 MILD 46 MILD 47 MILD 48 MILD 49 MILD 50 MILD 51 MILD 52 MILD 53 MILD 54 MILD 55 MILD 56 MILD 57 MILD 58 MILD 59 MILD 60 MILD 61 MILD 62 MILD 63 MILD 64 MILD 65 MILD 66 MILD 67 MILD 68 MILD 69 MILD 70 MILD 71 MILD 72 MILD 73 MILD 74 MILD 75 MILD 76 MILD 77 MILD 78 MILD 79 MILD 80 MILD 81 MILD 82 MILD 83 MILD 84 MILD 85 MILD 86 MILD 87 MILD 88 MILD 89 MILD 90 MILD 91 MILD 92 MILD 93 MILD 94 MILD 95 MILD 96 MILD 97 MILD 98 MILD 99 MILD 100 MILD 101 MILD 102 MILD 103 MILD 104 MILD 105 MILD 106 MILD 107 MILD 108 MILD 109 MILD 110 MILD 111 MILD 112 MILD 113 MILD 114 MILD 115 MILD 116 MILD 117 MILD 118 MILD 119 MILD 120 MILD 121 MILD 122 MILD 123 MILD 124 MILD 125 MILD 126 MILD 127 MILD 128 MILD 129 MILD 130 MILD 131 MILD 132 MILD 133 MILD 134 MILD 135 MILD 136 MILD 137 MILD 138 MILD 139 MILD 140 MILD 141 MILD 142 MILD 143 MILD 144 MILD 145 MILD 146 MILD 147 MILD 148 MILD 149 MILD 150 MILD 151 MILD 152 MILD 153 MILD 154 MILD 155 MILD 156 MILD 157 MILD 158 MILD 159 MILD 160 MILD 161 MILD 162 MILD 163 MILD 164 MILD 165 MILD 166 MILD 167 MILD 168 MILD 169 MILD 170 MILD 171 MILD 172 MILD 173 MILD 174 MILD 175 MILD 176 MILD 177 MILD 178 MILD 179 MILD 180 MILD 181 MILD 182 MILD 183 MILD 184 MILD 185 MILD 186 MILD 187 MILD 188 MILD 189 MILD 190 MILD 191 MILD 192 MILD 193 MILD 194 MILD 195 MILD 196 MILD 197 MILD 198 MILD 199 MILD 200 MILD 201 MILD 202 MILD 203 MILD 204 MILD 205 MILD 206 MILD 207 MILD 208 MILD 209 MILD 210 MILD 211 MILD 212 MILD 213 MILD 214 MILD 215 MILD 216 MILD 217 MILD 218 MILD 219 MILD 220 MILD 221 MILD 222 MILD 223 MILD 224 MILD 225 MILD 226 MILD 227 MILD 228 MILD 229 MILD 230 MILD 231 MILD 232 MILD 233 MILD 234 MILD 235 MILD 236 MILD 237 MILD 238 MILD 239 MILD 240 MILD 241 MILD 242 MILD 243 MILD 244 MILD 245 MILD 246 MILD 247 MILD 248 MILD 249 MILD 250 MILD 251 MILD 252 MILD 253 MILD 254 MILD 255 MILD 256 MILD 257 MILD 258 MILD 259 MILD 260 MILD 261 MILD 262 MILD 263 MILD 264 MILD 265 MILD 266 MILD 267 MILD 268 MILD 269 MILD 270 MILD 271 MILD 272 MILD 273 MILD 274 MILD 275 MILD 276 MILD 277 MILD 278 MILD 279 MILD 280 MILD 281 MILD 282 MILD 283 MILD 284 MILD 285 MILD 286 MILD 287 MILD 288 MILD 289 MILD 290 MILD 291 MILD 292 MILD 293 MILD 294 MILD 295 MILD 296 MILD 297 MILD 298 MILD 299 MILD 300 MILD 301 MILD 302 MILD 303 MILD 304 MILD 305 MILD 306 MILD 307 MILD 308 MILD 309 MILD 310 MILD 311 MILD 312 MILD 313 MILD 314 MILD 315 MILD 316 MILD 317 MILD 318 MILD 319 MILD 320 MILD 321 MILD 322 MILD 323 MILD 324 MILD 325 MILD 326 MILD 327 MILD 328 MILD 329 MILD 330 MILD 331 MILD 332 MILD 333 MILD 334 MILD 335 MILD 336 MILD 337 MILD 338 MILD 339 MILD 340 MILD 341 MILD 342 MILD 343 MILD 344 MILD 345 MILD 346 MILD 347 MILD 348 MILD 349 MILD 350 MILD 351 MILD 352 MILD 353 MILD 354 MILD 355 MILD 356 MILD 357 MILD 358 MILD 359 MILD 360 MILD 361 MILD 362 MILD 363 MILD 364 MILD 365 MILD 366 MILD 367 MILD 368 MILD 369 MILD 370 MILD 371 MILD 372 MILD 373 MILD 374 MILD 375 MILD 376 MILD 377 MILD 378 MILD 379 MILD 380 MILD 381 MILD 382 MILD 383 MILD 384 MILD 385 MILD 386 MILD 387 MILD 388 MILD 389 MILD 390 MILD 391 MILD 392 MILD 393 MILD 394 MILD 395 MILD 396 MILD 397 MILD 398 MILD 399 MILD 400 MILD 401 MILD 402 MILD 403 MILD 404 MILD 405 MILD 406 MILD 407 MILD 408 MILD 409 MILD 410 MILD 411 MILD 412 MILD 413 MILD 414 MILD 415 MILD 416 MILD 417 MILD 418	
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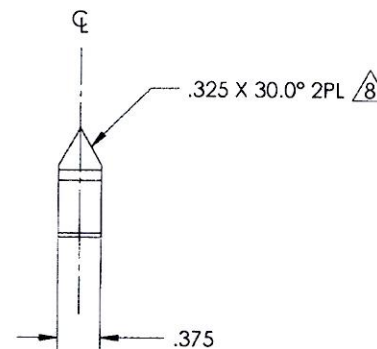
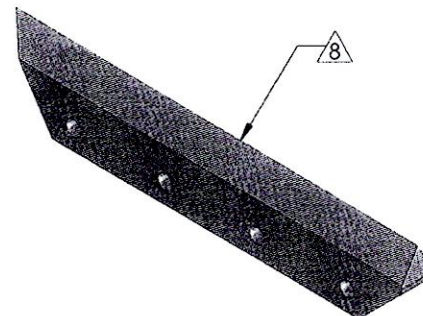
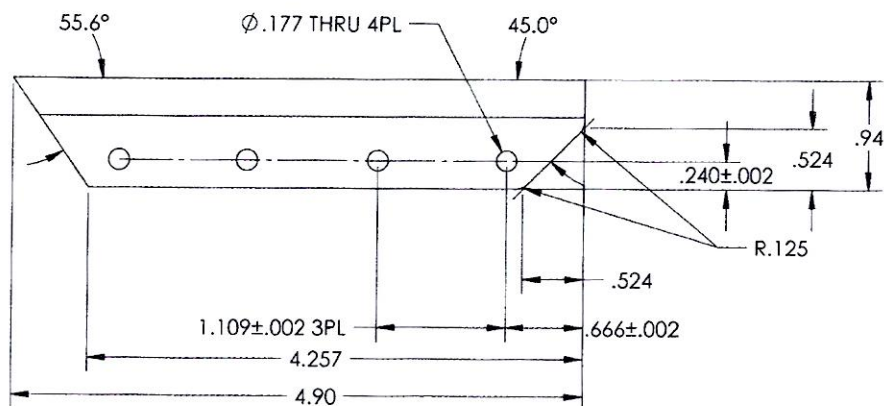
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



ORIGINAL DATE: 08-20-08 DRAWN BY: S. HUI CHECKED BY: M. HUI DRAWING APPROVAL: P. BRAYO DATE: 08-26-08 COMPARISON:		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.001 FRACTIONS ±.005		KIT: 646.3300 B: 07/02/08 SCALE: NONE	DWG. NO: 646.3300 REV: N/C SHEET: 5 OF 8

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REV	DESCRIPTION	DATE	APPROVED

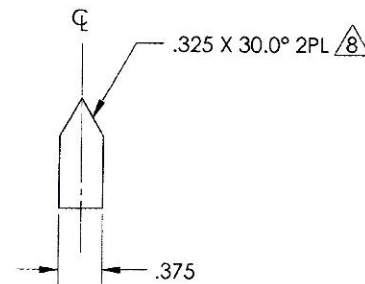
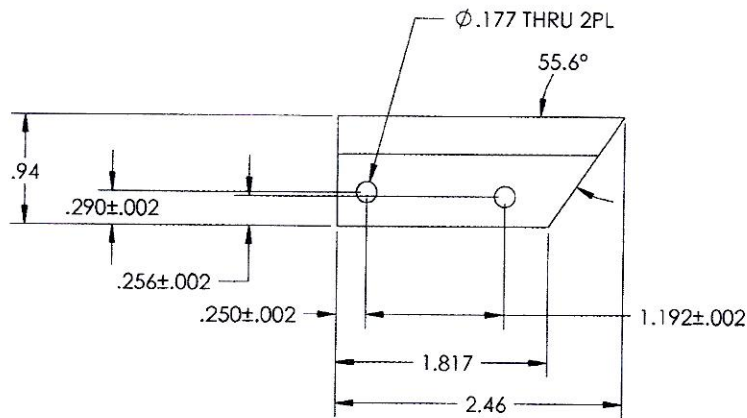
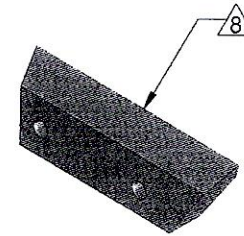


646.3314

ORIGINAL DATE JUN 26 2006	APICAL INDUSTRIES		
DRAWN BY J. HUN	2608 TEMPLE HEIGHTS DR.		
CHECKED J. HUN	OCEANSIDE, CA 92056-3512 (760) 724-5300		
DRAWING APPROVAL J. HUN	UPPER CUTTER ASSY		
CONTRACT NO. 06-26-06			
IF ALL DIMENSIONS SPECIFIED UNLESS OTHERWISE INDICATED TOLERANCES ARE:	1 PLACE DECIMALS ±.01	2 PLACE DECIMALS ±.005	ANGLES ± 5°
SCALE NONE	CAGE CODE 07M26	DWG NO 646.3300	REV N/C
		SHEET 6 OF 8	

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

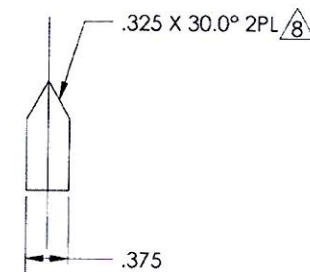
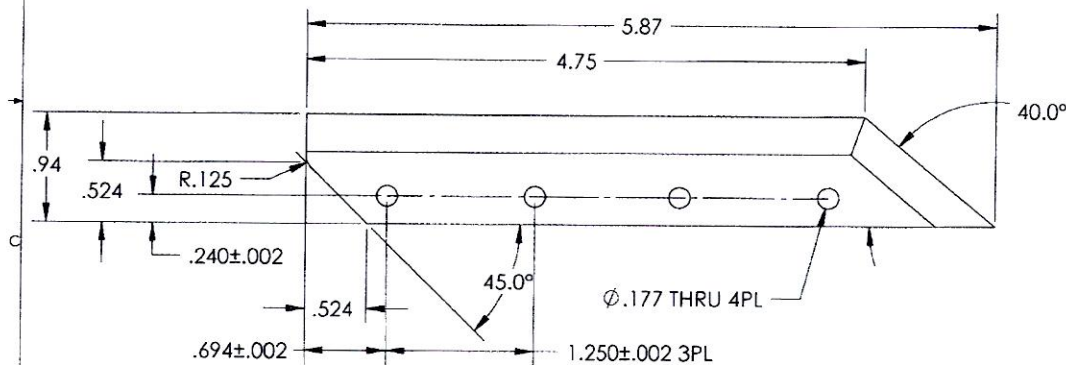
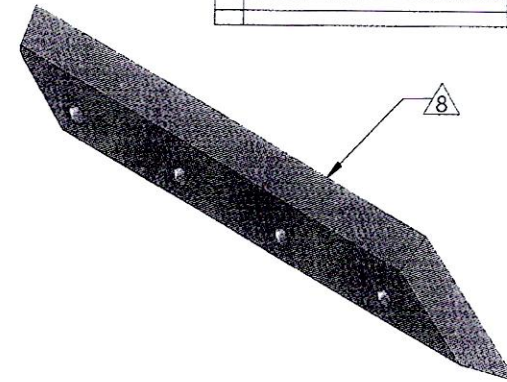


646.3315

ORIGINAL DATE: 05-20-05 DRAWN BY: J. CHICKER S. NUM: P. BRAVO DRAWING APPROVAL: P. BRAVO CONTRACT NO.:			
APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300			
UPPER CUTTER ASSY			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS .01 3 PLACE DECIMALS .005 ANGLES ± .5°	SIZE: 8 CAGE CODE: 07M26	XNG NO: 646.3300	REV: N/C
SCALE: NONE			SHEET: 7 OF 8

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REVISION			
REV.	DESCRIPTION	DATE	APPROVED



646.3316

ORIGINAL DATE 08-20-08		APICAL INDUSTRIES	
DRAWN BY J. HUFF		2608 TEMPLE HEIGHTS DR.	
CHECKED BY P. BRAVO		OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BRAVO		UPPER CUTTER ASSY	
CONTRACT NO.			
MATERIAL SPECIFIED UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.002 ANGLES ±.5°		REV 8	REV N/A
SCALE NONE		SHEET 8 OF 8	



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35865**

Purchase Order Date 4/6/2017
PO Print Date 4/20/2017

Page Number 4 of 6

Order From :

A.T.G. INDUSTRIES INC.
731 INDUSTRIELLE ROAD
ROCKLAND, ON K4K 1T2
CANADA

VC-ATG001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 613-446-4544

Ship To Contact

Ship To Phone

Ship Via:

Ship Acct:

VENDOR'S TRUCK

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

FCA - (Free Carrier)

10	158489	646.3812 GUSSET REV. N/C	4/24/2017	11.00	\$6.10	\$67.10
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Yes

4/24/2017

FINISH: HARD BLACK ANODIZE AS PER IAW MIL-A-8625 TYPE III, CLASS 2 / PRIME AS PER IAW MIL-PRF-23377 TYPE I CLASS N

Line Total: \$67.10

11	158338	646.3311 UPPER CUTTER REV. N/C	4/24/2017	4.00	\$18.10	\$72.40
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Yes

4/24/2017

FINISH: HARD BLACK ANODIZE AS PER IAW MIL-A-8625 TYPE III, CLASS 2 / PRIME AS PER IAW MIL-PRF-23377 TYPE I CLASS N

Line Total: \$72.40

12	158341	646.3310 UPPER CUTTER REV. N/C	4/24/2017	4.00	\$18.10	\$72.40
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No

4/24/2017

FINISH: HARD BLACK ANODIZE AS PER IAW MIL-A-8625 TYPE III, CLASS 2 / PRIME AS PER IAW MIL-PRF-23377 TYPE I CLASS N

Line Total: \$72.40

PO Instructions: PRIMER IS SUPPLIED BY DART

Note:

4/20/2017



A.T.G. INDUSTRIES INC.
731 INDUSTRIELLE STREET
ROCKLAND, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 913226

Date: 24-Apr-17

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chantal Lavoie
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613-632-9377 Fax: 613-632-1551

Terms		Ship Via	
		OUR TRUCK	
Quantity	Description		
	PLEASE REFERENCE THE PACK LIST NUMBER ON ALL CORRESPONDENCE TO THIS SHIPMENT. IF YOU HAVE ANY QUESTIONS, PLEASE CALL AT (613) 446-4544.		
2 ea	Part: D5155-043 Co-Pilot Black Anodize per MIL-A-8625F, Type II, Class 2 Job: 20910		Rev: B Line: 1
11 ea	Part: 646.3812 Gusset Hard Black Anodize per MIL-A-8625F, Type III, Class 2 Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied) Job: 20919		Rev: N/C Line: 10
4 ea	Part: 646.3311 Upper Cutter Hard Black Anodize per MIL-A-8625F, Type III, Class 2 Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied) Job: 20920		Rev: N/C Line: 11
4 ea	Part: 646.3310 Upper Cutter Hard Black Anodize per MIL-A-8625F, Type III, Class 2 Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied) Job: 20921		Rev: N/C Line: 12
6 ea	Part: 646.3210 Support Hard Black Anodize per MIL-A-8625F, Type III, Class 2 Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied) Job: 20922		Rev: N/C Line: 13
1 ea	Part: ADMINISTRATION FEE Administrative Fee		Rev: N/A



A.T.G. INDUSTRIES INC.
731 INDUSTRIELLE STREET
ROCKLAND, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 913226

Date: 24-Apr-17

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chantal Lavoie
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		OUR TRUCK	
Quantity	Description		
5 ea	Part: 647.4114 Shim Hard Black Anodize per MIL-A-8625F, Type III, Class 2 Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied) Job: 20917	Rev: N/C	Line: 8
5 ea	Part: 647.4115 Shim Hard Black Anodize per MIL-A-8625F, Type III, Class 2 Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied) Job: 20918	Rev: N/C	Line: 9
DATE : <u>24/04/2017</u>			
CERTIFIED SIGNATURE : <u>[Signature]</u>			
RECEIVER SIGNATURE : <u>SP14-4-25</u>			
Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt.			
CERTIFICATE OF CONFORMANCE			
A.T.G. INDUSTRIES INC. CERTIFIES THAT ALL ITEMS IN THIS SHIPMENT CONFORM TO REQUIREMENTS.			
MADE IN CANADA.			